



DOCKET NO.: H0498.70198US01

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

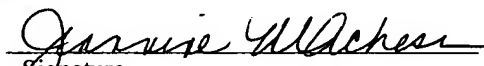
Applicants: Marc W. Kirschner et al.  
Serial No.: 10/550,826  
Confirmation No.: Not Yet Assigned  
Filed: September 23, 2005  
For: DETERMINATION OF PROTEINS AND/OR OTHER  
MOLECULES USING MASS SPECTROSCOPY

Examiner: Not Yet Assigned  
Art Unit: Not Yet Assigned

---

**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)**

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to MAIL STOP Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 7<sup>th</sup> day of April, 2006.

  
Signature

---

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT FILED PURSUANT TO THE DUTY OF  
DISCLOSURE UNDER 37 C.F.R. §§1.56, 1.97 AND 1.98**

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicants request consideration of this Information Disclosure Statement.

**PART I: Compliance with 37 C.F.R. §1.97**

This Information Disclosure Statement has been filed before the mailing of a first Office action on the merits in the above-identified case. No fee or certification is required.

PART II: Information Cited

The Applicants hereby make of record in the above-identified application the information listed on the attached form PTO-1449 (modified PTO/SB/08). The order of presentation of the references should not be construed as an indication of the importance of the references.

PART III: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 (modified PTO/SB/08) be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicants make no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicants, the Examiner is urged to form his or her own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

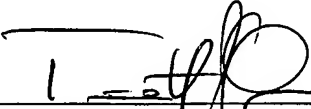
Serial No.: 10/550,826  
Conf. No.: Not Yet Assigned

- 3 -

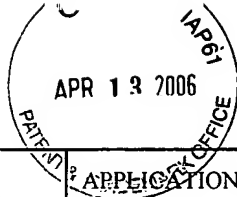
Art Unit: Not Yet Assigned

Respectfully submitted,

By:

  
\_\_\_\_\_  
Timothy J. Oyer, Ph.D., Reg. No. 36,628  
Tani Chen, Sc.D., Reg No. 52,728  
WOLF, GREENFIELD & SACKS, P.C.  
600 Atlantic Avenue  
Boston, Massachusetts 02210-2206  
Telephone: (617) 646-8000

Docket No.: H0498.70198US01  
Date: April 7, 2006  
xNDDx



FORM PTO-1449/A and B (modified PTO/SB/08)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			APPLICATION NO.: 10/550,826	ATTY. DOCKET NO.: H0498.70198US01	
			FILING DATE: Sept. 23, 2005	CONFIRMATION NO.: Not Yet Assigned	
			APPLICANT: Marc W. Kirschner et al.		
			GROUP ART UNIT: Not Yet Assigned	EXAMINER: Not Yet Assigned	
Sheet	1	of	2		

#### U.S. PATENT DOCUMENTS

Examiner's Initials #	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
		5,512,131		Kumar et al.	04-30-1996
		5,620,850		Bamdad et al.	04-15-1997
		5,731,152		Maracas et al.	03-24-1998
		5,776,748		Singhvi et al.	07-07-1998

#### FOREIGN PATENT DOCUMENTS

Examiner's Initials #	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			
		WO	96/29629	A2	President and Fellows of Harvard College	09-26-1996	
		WO	99/54786	A1	President and Fellows of Harvard College	10-28-1999	
		WO	01/70389	A2	President and Fellows of Harvard College	09-27-2001	
		WO	02/06834	A2	Pointilliste, Inc.	01-24-2002	
		WO	2004/005918	A2	University of Chicago	01-15-2004	
		WO	2004/088325	A2	President and Fellows of Harvard College	10-14-2004	

#### OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials #	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
		Bain, C. et al., "Formation of Monolayers by the Coadsorption of Thiols on Gold: Variation in the Head Group, Tail Group, and Solvent," <i>J. Am. Chem. Soc.</i> (1989), 111:7155-7164	
		Bain, C. et al., "Formation of Monolayers by the Coadsorption of Thiols on Gold: Variation in the Length of the Alkyl Chain," <i>J. Am. Chem. Soc.</i> (1989), 111:7164-7175	
		E-Dispatch, Bruker Daltronics, downloaded 09-28-2005 from <a href="http://www.bdal.com/modux3/-modux3.php?pid">http://www.bdal.com/modux3/-modux3.php?pid</a>	
		Fernandez, F.M. et al., "Peptide Sequencing Using a Patchwork Approach and Surface-Induced Dissociation in Sector-TOF and Dual Quadrupole Mass Spectrometers," <i>J. Am. Soc. Mass. Spectrom.</i> (2003), 14:1387-1401	

EXAMINER:	DATE CONSIDERED:
-----------	------------------

# EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

\*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_, filed \_\_, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE — No copies of U.S. patents, published U.S. patent applications, or pending, unpublished patent applications stored in the USPTO's Image File Wrapper (IFW) system, are included. See 37 CFR §1.98 and 1287OG163. Copies of all other patent(s), publication(s), unpublished, pending U.S. patent applications, or other information listed are provided as required by 37 CFR §1.98 unless 1) such copies were provided in an IDS in an earlier application that complies with 37 CFR §1.98, and 2) the earlier application is relied upon for an earlier filing date under 35 U.S.C. §120.]



<b>FORM PTO-1449/A and B (modified PTO/SB/08)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				APPLICATION NO.: 10/550,826		ATTY. DOCKET NO.: H0498.70198US01			
				FILING DATE: Sept. 23, 2005		CONFIRMATION NO.: Not Yet Assigned			
				APPLICANT: Marc W. Kirschner et al.					
				GROUP ART UNIT: Not Yet Assigned		EXAMINER: Not Yet Assigned			
Sheet	2	of	2						

		Laibinis, P.E. et al., "Orthogonal Self-Assembled Monolayers: Alkanethiols on Gold and Alkane Carboxylic Acids on Alumina," <i>Science</i> (1989), <b>245</b> :845	
		Nedelkov, D. et al., "Design of buffer exchange surfaces and sensor chips for biosensor chip mass spectrometry," <i>Proteomics</i> (2002), <b>2</b> :441-446	
		Nelson, R.W. et al., "Biosensor chip mass spectrometry: A chip-based proteomics approach," <i>Electrophoresis</i> (2000), <b>21</b> :1155-1163	
		Su, J. et al., "Using Mass Spectrometry to Characterize Self-Assembled Monolayers Presenting Peptides, Proteins, and Carbohydrates," <i>Angew. Chem. Int. Ed.</i> (2002), <b>41</b> (24):4715-4718	
		Templin, M.F. et al., "Protein microarray technology," <i>DDT</i> (2002), <b>7</b> (15):815-822	
		Search Report and Written Opinion from International Patent Application No. PCT/US2004/009376 filed 03/26/2004	

EXAMINER:	DATE CONSIDERED:
-----------	------------------

# EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

\*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_, filed \_\_, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE – No copies of U.S. patents, published U.S. patent applications, or pending, unpublished patent applications stored in the USPTO's Image File Wrapper (IFW) system, are included. See 37 CFR §1.98 and 1287OG163. Copies of all other patent(s), publication(s), unpublished, pending U.S. patent applications, or other information listed are provided as required by 37 CFR §1.98 unless 1) such copies were provided in an IDS in an earlier application that complies with 37 CFR §1.98, and 2) the earlier application is relied upon for an earlier filing date under 35 U.S.C. §120.]